



Enabling Results Driven Government Virginia Tech University

April 21, 2005



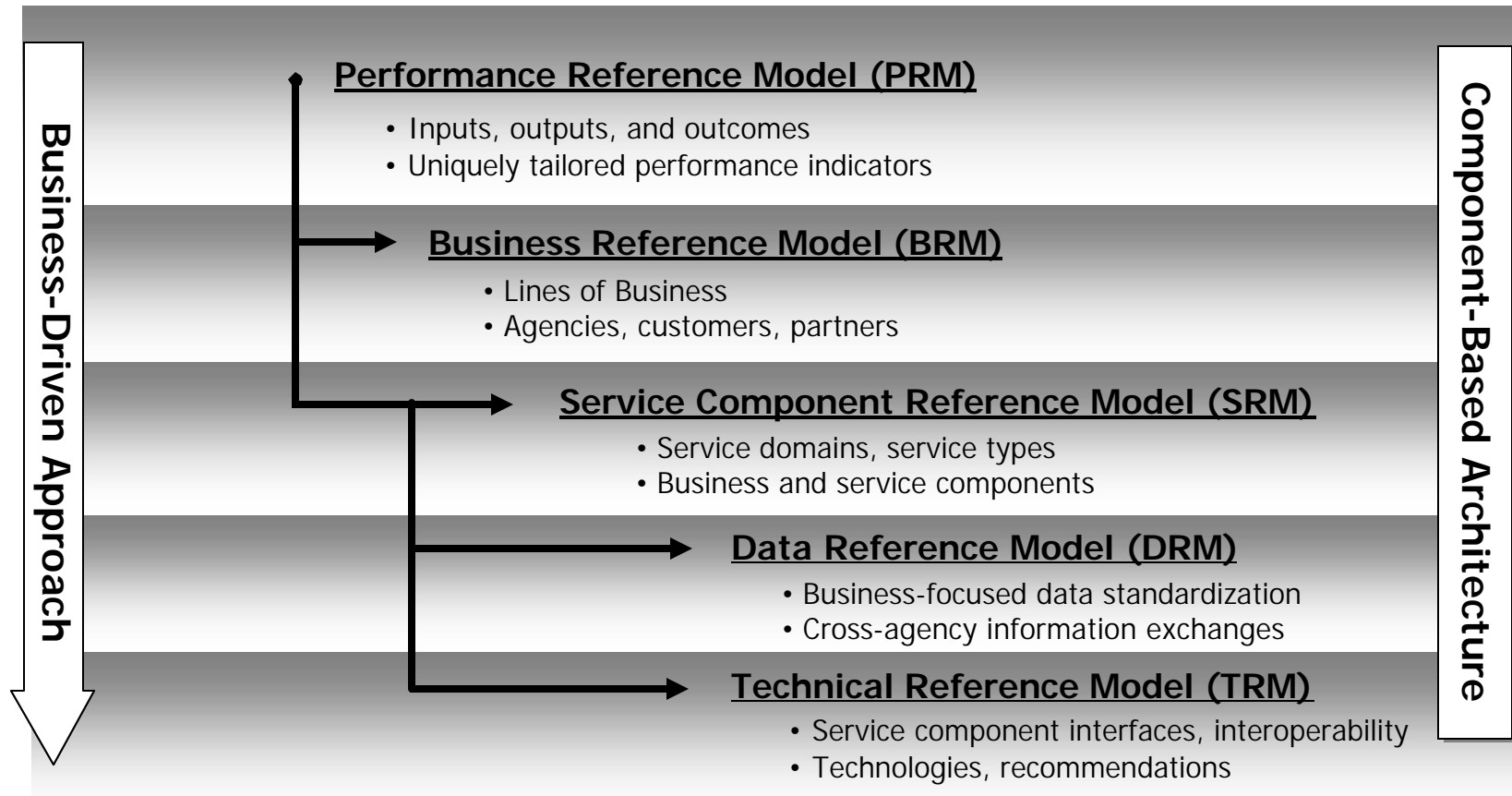


Agenda

- Introduction
- FEA Reference Models
- CONOPS
- LoBs and Services
- HUD Case Study
- Results
- FEA Action Plan



Introduction: FEA





Introduction: Benefits of the FEA

- Provides a common language and set of work products for implementing EA programs
- Identifies opportunities to eliminate or consolidate redundant applications and processes
- Identifies current and future opportunities for agency collaboration
- Provides a means to gather and review IT data efficiently and effectively

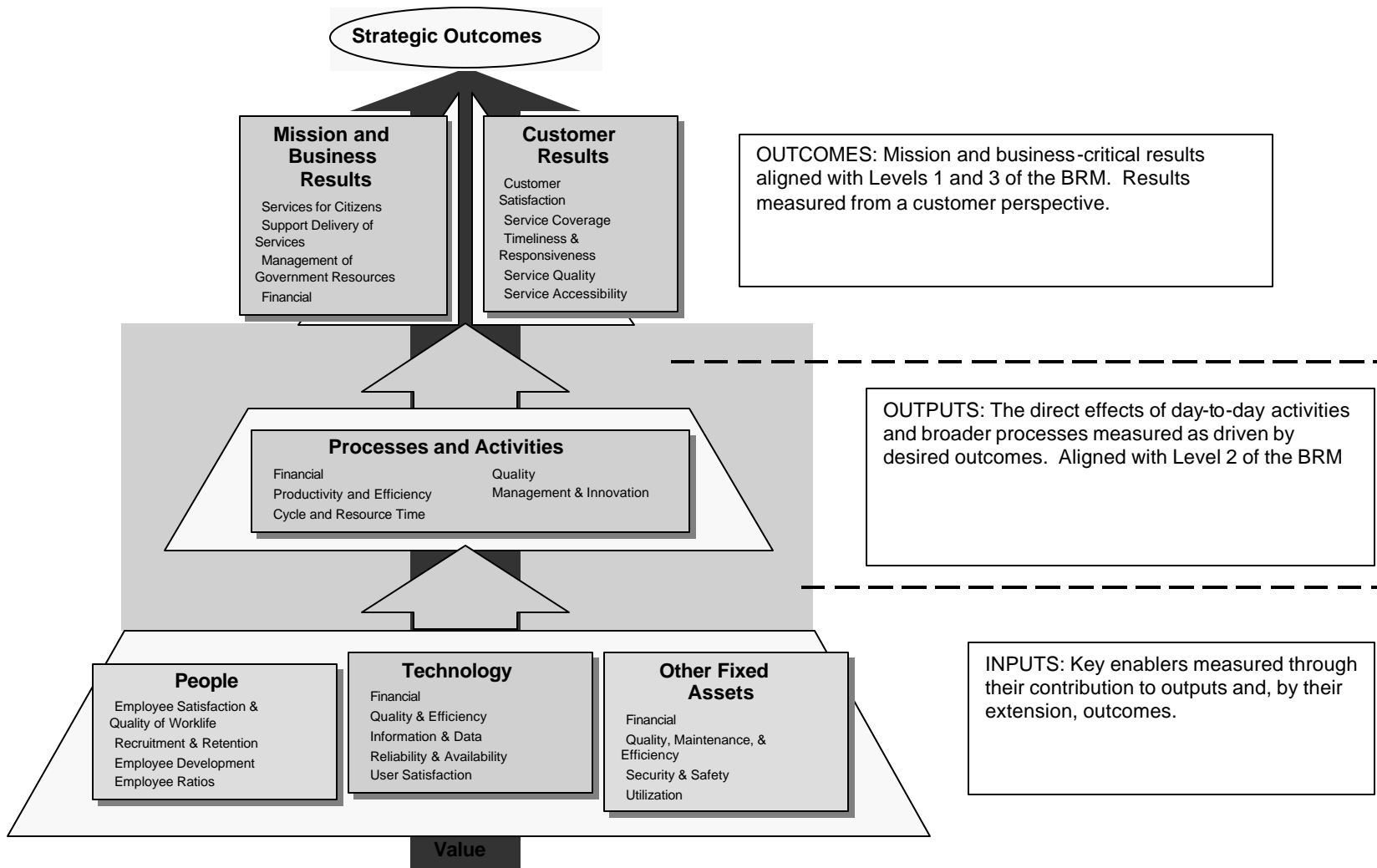


Introduction: FEA Community

- The FEA will bring its stakeholders together
- Key stakeholders include
 - CIOs
 - Chief Architects
 - Program Officials
 - Agency Leadership
 - Congress
 - Industry
 - Academia
- The FEA needs participation from its stakeholders to mature



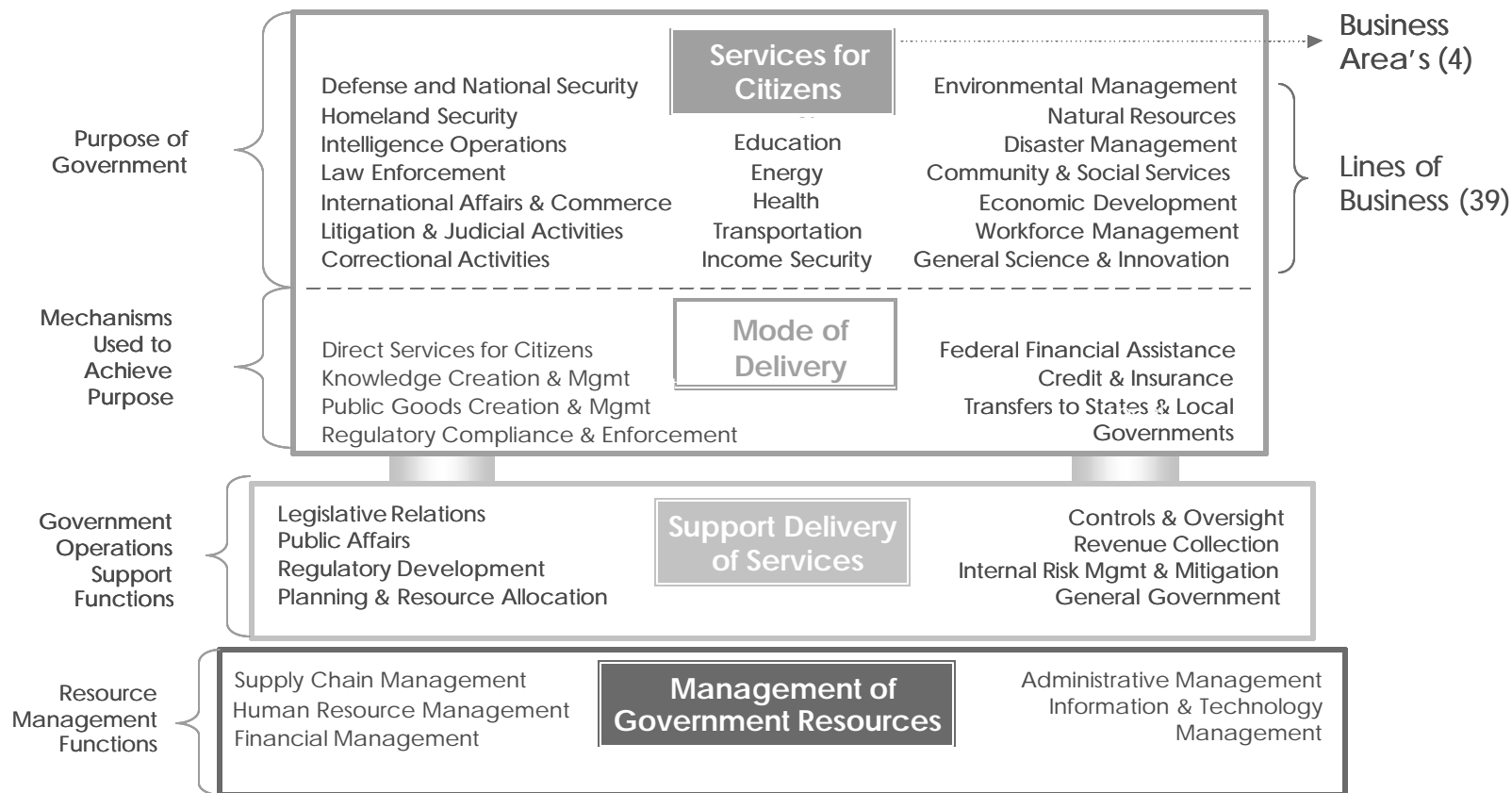
Performance Reference Model





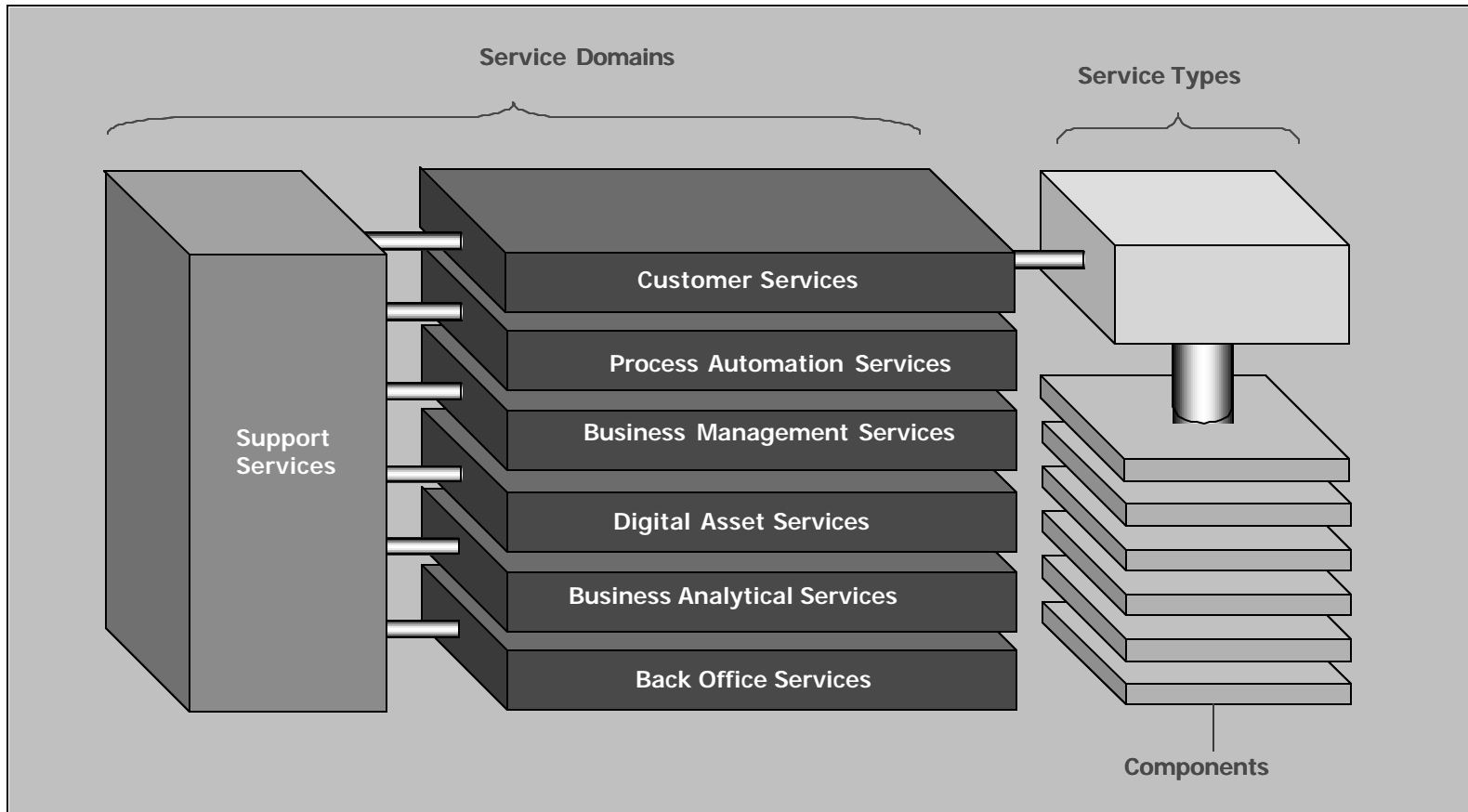
Business Reference Model

The Business Reference Model (BRM)





Service Component Reference Model





Technical Reference Model

Service Access and Delivery

Access Channels

Web Browser
Wireless/PDA
Collaboration/Communications
Other Electronic Channels

Delivery Channels

Internet
Intranet
Extranet
Peer to Peer (P2P)
Virtual Private Network (VPN)

Service Requirements

Legislative/Compliance
Authentication/Single Sign-on
Hosting

Service Transport

Supporting Network Services
Service Transport

Service Platform and Infrastructure

Support Platform

Wireless/Mobile
Platform Independent
Platform Dependent

Delivery Servers

Web Servers
Media Servers
Application Servers
Portal Servers

Hardware/Infrastructure

Servers/Computers
Embedded Technology Devices
Peripherals
Wide Area Network (WAN)
Local Area Network (LAN)
Network Devices/Standards
Video Conferencing

Software Engineering

Integrated Dev. Environment
Software Configuration Mgmt.
Test Management
Modeling

Database/Storage

Database
Storage

Component Framework

Security

Certificates/Digital Signature
Supporting Security Services

Presentation/Interface

Static Display
Dynamic Server-Side Display
Content Rendering
Wireless/Mobile/Voice

Business Logic

Platform Independent
Platform Dependent

Data Management

Database Connectivity
Reporting and Analysis

Data Interchange

Data Exchange

Service Interface and Integration

Integration

Middleware
Enterprise Application Integration

Interoperability

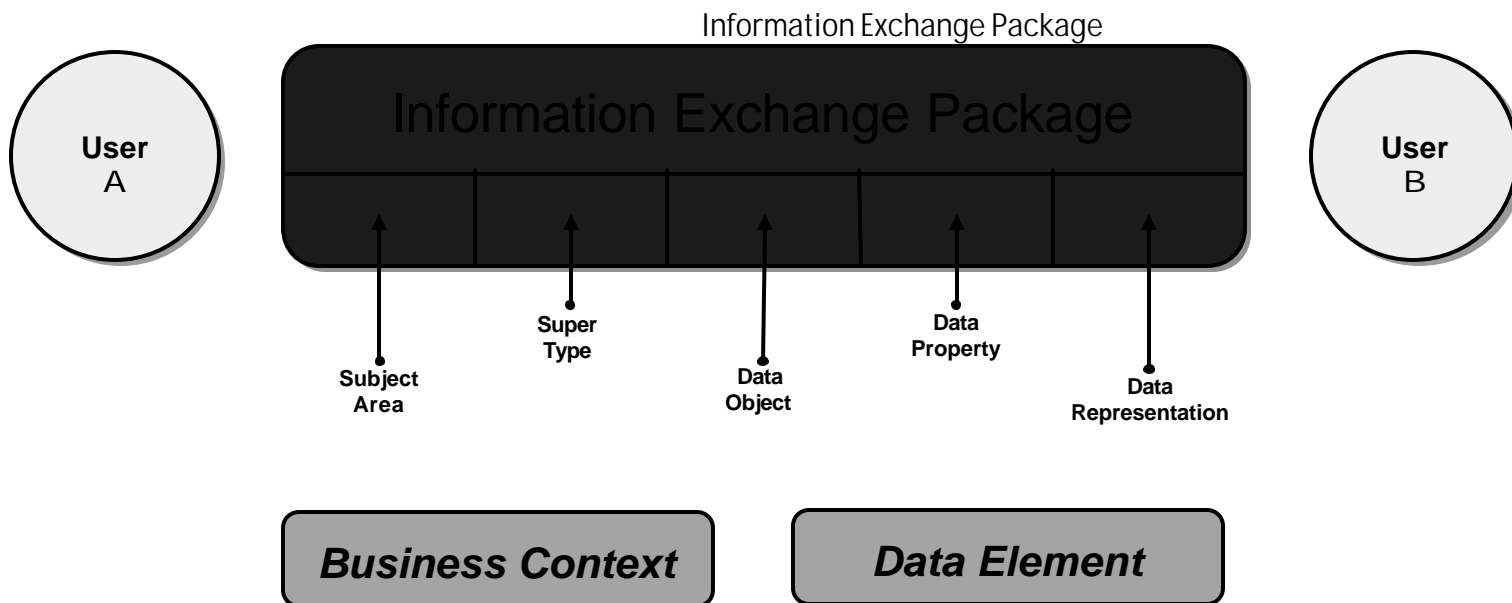
Data Format/Classification
Data Types/Validation
Data Transformation

Interface

Service Discovery
Service Description/Interface

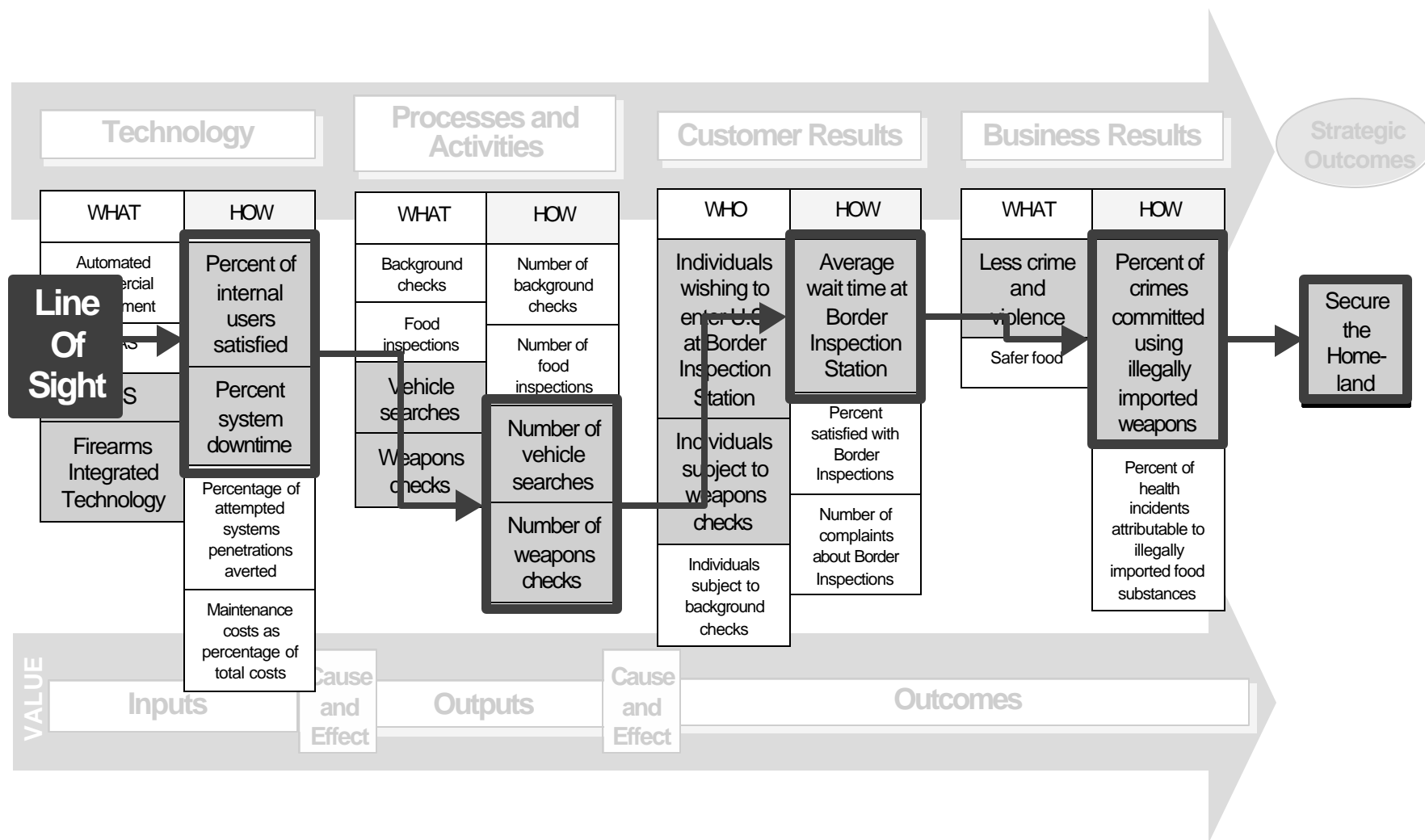


Data Reference Model



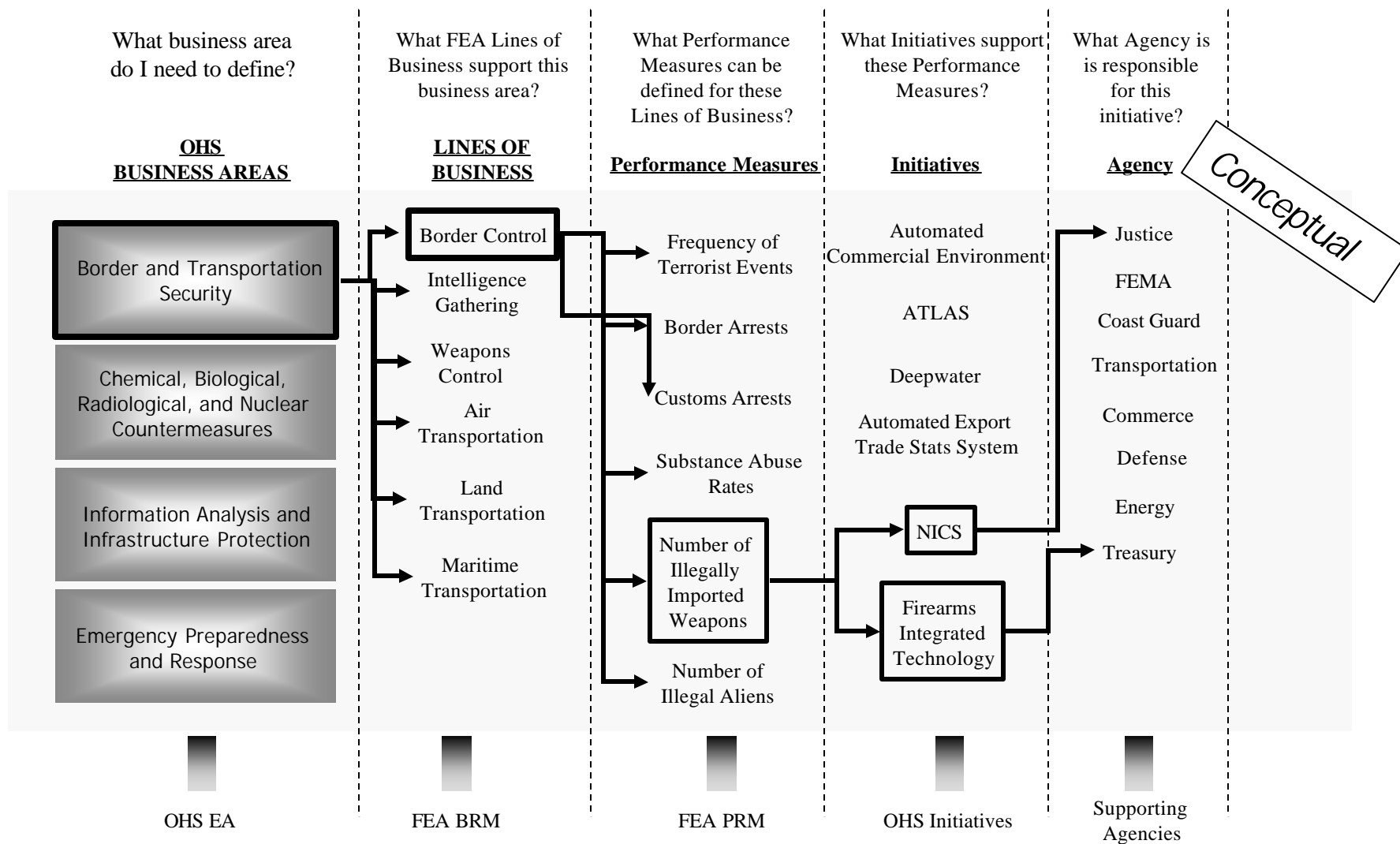


Performance Reference Model “Line of Sight”





Performance Reference Model





CONOPS

ARCHITECT

- Develop and maintain enterprise architecture
- Review, reconcile and approve segment architecture for the agency's core lines of business and common IT services

INVEST

- Select IT initiatives to define the agency's IT investment portfolio
- Control IT investments
- Evaluate IT investments

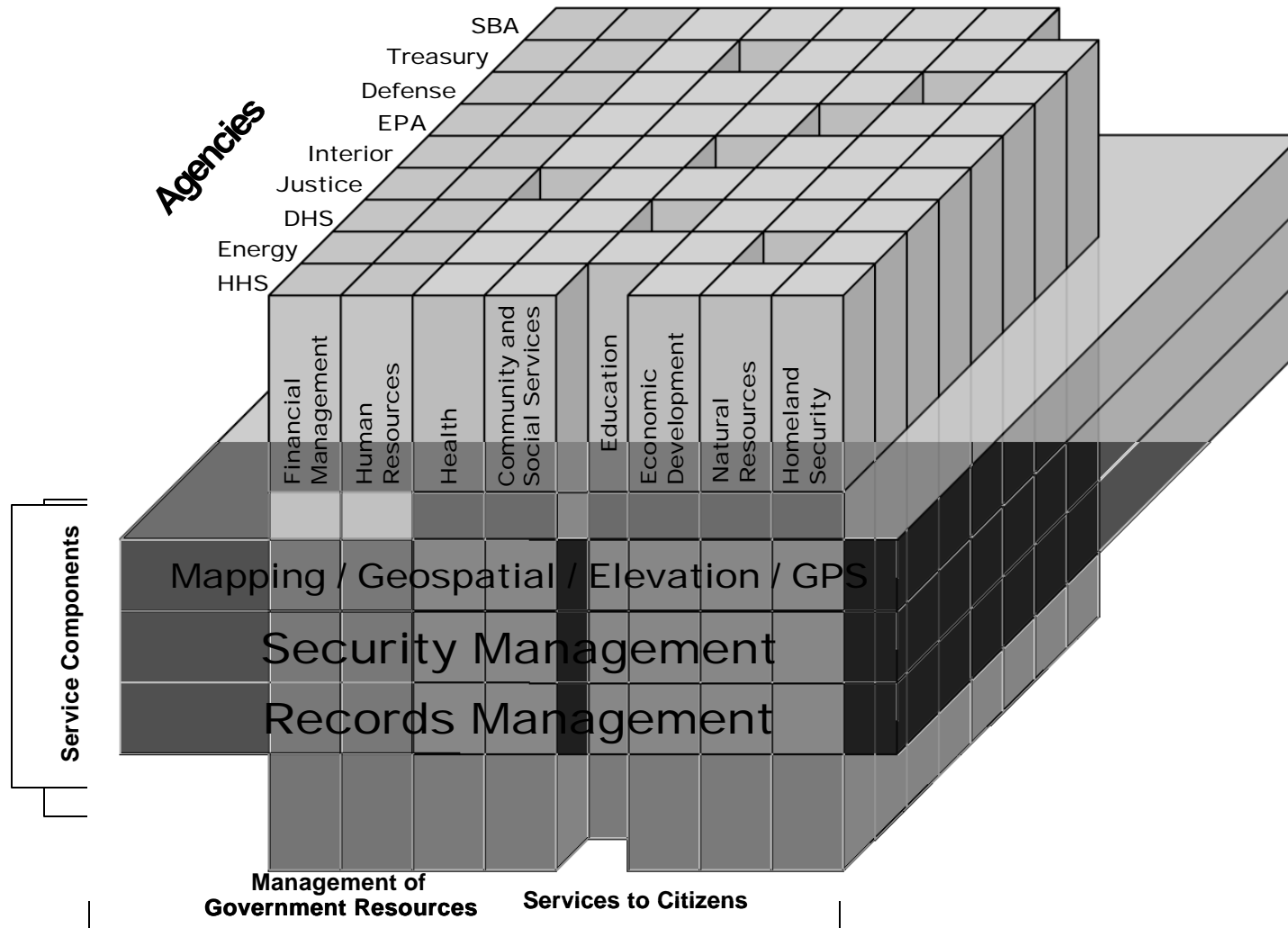
IMPLEMENT

- Develop and maintain segment architecture
- Develop IT program management plan
- Execute IT projects

← END-TO-END GOVERNANCE →

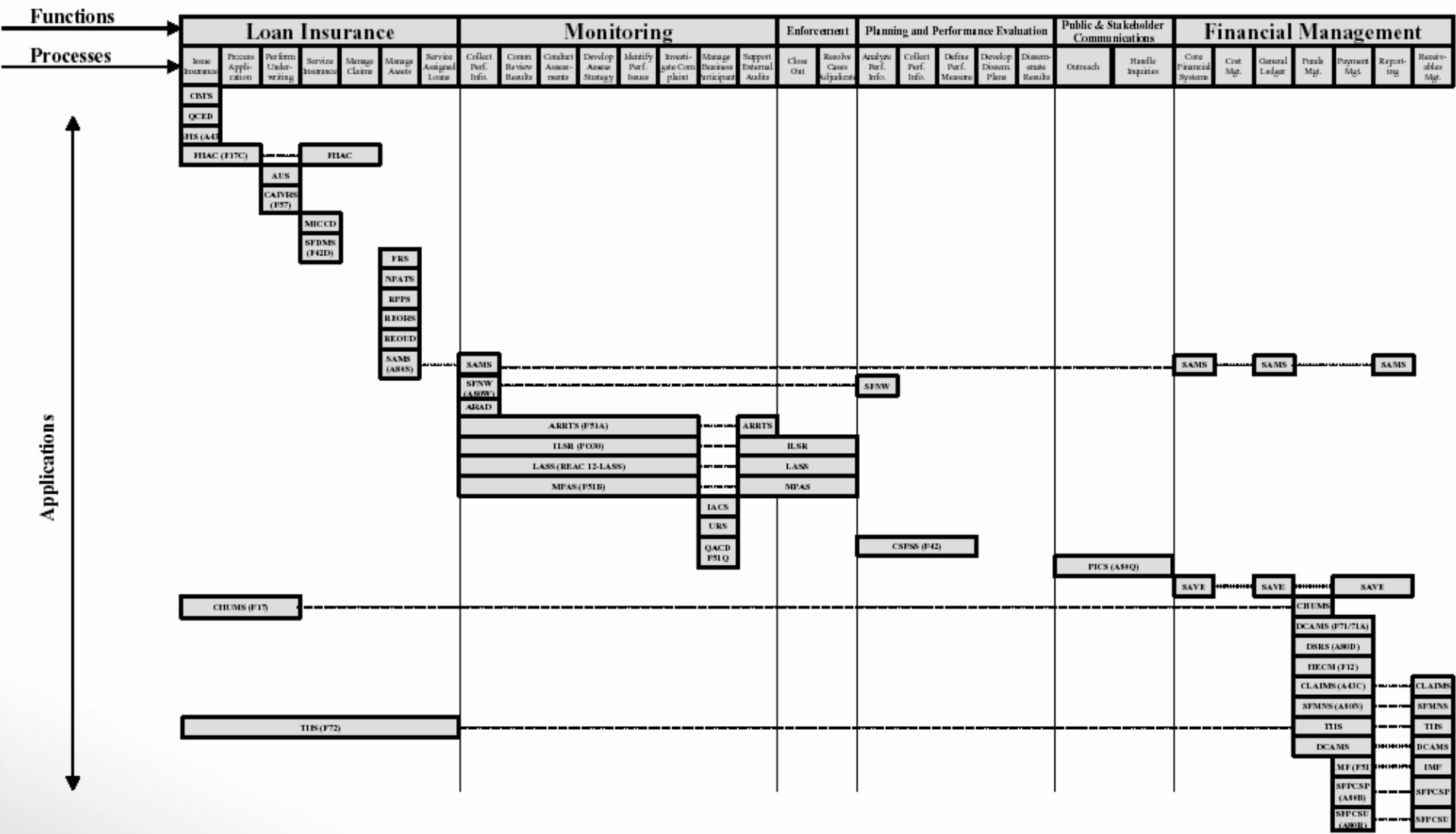


LoBs and Services



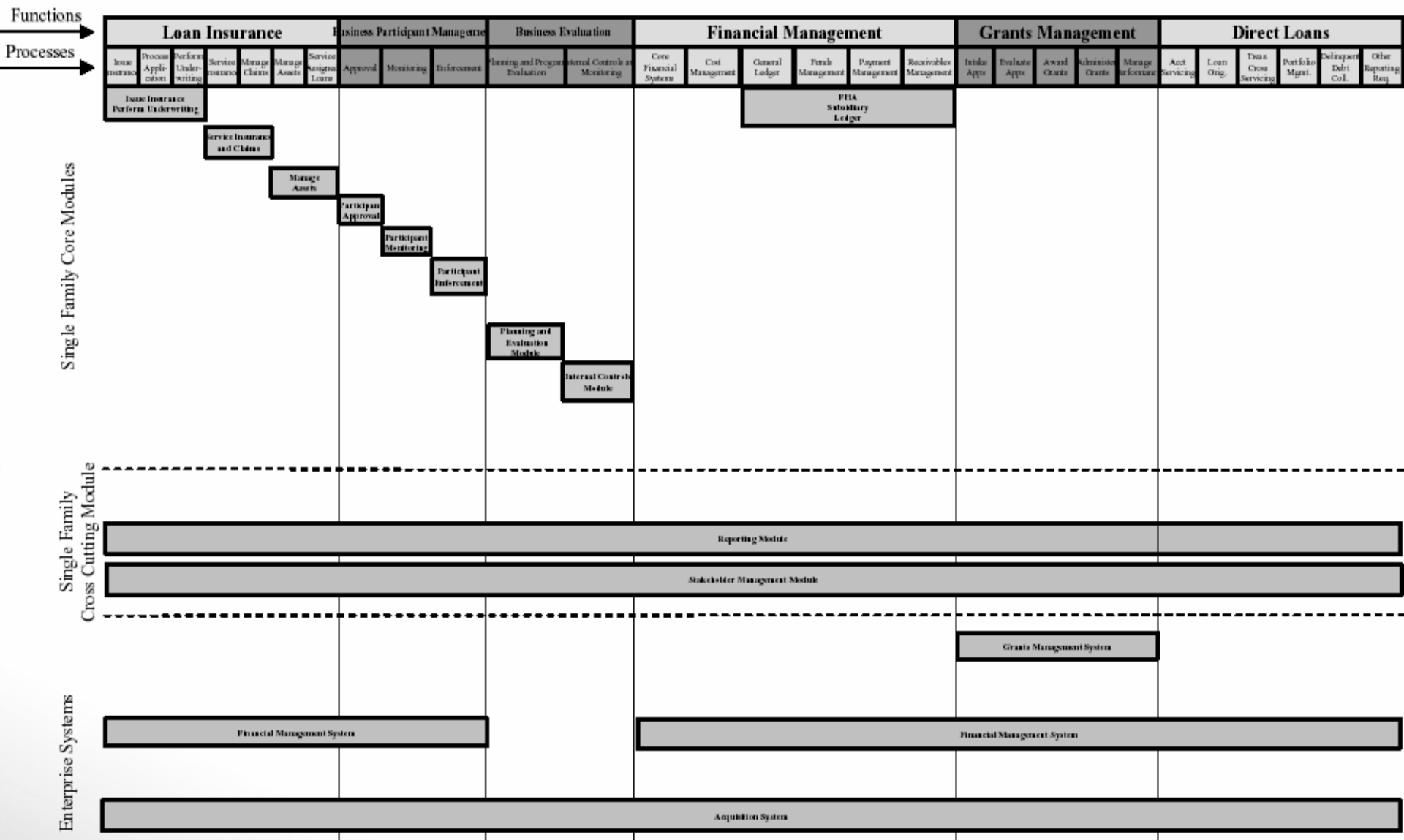


Mortgage Insurance LoB Current Architecture





Mortgage Insurance LoB Target Architecture





Return on Investment

Inputs

- Four months of time from Architects and Program Officials
- Three years to transition to target state
- \$9 million dollars in DME (not including infrastructure)

Outputs

- Reduced the number of systems by nearly 80%
- Minimized functional overlap in the Mortgage Insurance LoB
- Modernized HUD's technology base
- Decreased the total cost of ownership from \$28 million dollars to \$16 million

Outcomes

- Increased the number of loans processed per day
- Identified faster, the number of lenders who are illegally discriminating
- Identified earlier, the lenders providing HUD with bad loans
- Identified non-viable lenders, and responded faster



Realizing Results

Government to Citizen	Government to Government
<ul style="list-style-type: none">▪ 3.4 million taxpayers filed using Free-File▪ Recreation One-Stop provided easy access to ~3,000 federal parks & other recreation sites	<ul style="list-style-type: none">▪ 15,000 users registered with DisasterHelp.gov▪ Disaster Management services used in 43 actual emergencies
Government to Business	Internal Efficiency & Effectiveness
<ul style="list-style-type: none">▪ 2.2 million applications received for Employer Identification Numbers (EIN)▪ 350,000 business tax forms filed electronically in first year of availability	<ul style="list-style-type: none">▪ More than 65 million job-seekers used USAJOBS to create over 600,000 on-line resumes▪ E-Payroll consolidating payroll providers from 26 to 2 partnerships

LoBs projected to save over \$5 billion dollars in the next 10 years.



FEA Mission, Vision and Goals

FEA MISSION

Develop and use the Federal Enterprise Architecture to improve government efficiency and effectiveness

VISION

The Federal Enterprise Architecture Practice is the cornerstone for the design, development and implementation of information resources government-wide

GOALS

1. Improve utilization of government information resources to focus on core agency mission and service delivery to citizens by using the FEA.
2. Enhance cost savings and cost avoidance through a mature FEA government-wide.
3. Increase cross-agency and inter-government collaboration.

2005 Strategic Initiatives

- **Articulate FEA Value and Build Trust with EA Partners**
 - Refine the FEA Value Proposition
 - Develop and Implement a Communications Strategy
 - Gather and Share EA Case Studies
- **Evolve the FEA to Drive Results**
 - Establish and Implement a Governance Framework
 - Link the PRM to the PART Framework
 - Align Enterprise Architecture to Agency Strategic Planning
 - Complete the Development of the Data Reference Model (DRM)
 - Engineer the FEA to Standardize Linkages between Reference Models
 - Guide the Development of the Security and Privacy Profile
 - Launch a Records Management Profile
 - Create a Geospatial Profile
 - Develop an Enterprise Architecture Glossary of Terms
- **Develop and Evolve the Lines of Business and Other Collaborative Opportunities**
 - Support the Identification of New Lines of Business
 - Support the IT Security Line of Business
 - Guide Agency Transition Planning Toward Common Solutions
 - Support the Integration of the E-Government and LoB Initiative Architectures
 - Enhance the Value and Business Benefits of Collaboration Tools
- **Measure EA Value with the EA Assessment Program**



FEA PMO 2005 Strategic Initiatives

1. Articulate FEA value and build trust with EA partners
2. Evolve the FEA to drive results
3. Develop and evolve the LoBs and other collaborative opportunities
4. Measure EA value with the EA Assessment Program



FEA PMO 2005 Strategic Initiatives

1. Articulate FEA value and build trust with EA Partners

- ✓ Refine the FEA value proposition
- ✓ Develop and implement a communications strategy
- ✓ Gather and share EA case studies



FEA PMO 2005 Strategic Initiatives

2. Evolve the FEA to drive results

- ✓ Establish and implement a governance framework
- ✓ Link the PRM to the PART
- ✓ Align EA to agency strategic planning
- ✓ Complete the development of the DRM



FEA PMO 2005 Strategic Initiatives

2. Evolve the FEA to drive results (cont.)

- ✓ Engineer the FEA to standardize linkages between reference models
- ✓ Guide the development of the security and privacy profile
- ✓ Launch a records management profile
- ✓ Create a geospatial profile
- ✓ Develop an EA Glossary of Terms



FEA PMO 2005 Strategic Initiatives

3. Develop and evolve the LoBs and other collaborative opportunities

- ✓ Support the identification of new LoBs
- ✓ Support the IT Security LoB
- ✓ Guide agency transition planning towards common solutions
- ✓ Support the integration of the E-Gov and LoB initiative architectures
- ✓ Enhance the value and business benefits of collaboration tools



FEA PMO 2005 Strategic Initiatives

4. Measure EA value with the EA Assessment Program

- ✓ Provide assistance to agencies to mature their EAs
- ✓ Evolve EA assessment tool



For Further Information
www.egov.gov



Programs and LoBs

